EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"5923756".pn. or "6198824".pn.	USPAT	OR	OFF	2004/07/20 13:07
S2	1377	713/201.ccls.	USPAT	OR	OFF	2004/09/07 00:26
S3	11	713/201.ccls. and certificate.ti.	USPAT	OR	OFF	2004/09/07 00:27
S4	1430	713/200.ccls.	USPAT	OR	OFF	2004/09/07 00:27
S5	6	713/200.ccls. and certificate.ti.	USPAT	OR	OFF	2004/09/07 00:27
S6	120	380/279.ccls.	USPAT	OR	OFF	2004/09/07 00:28
S7	10	"digital certificate".ti.	USPAT	OR	OFF	2004/09/07 00:28
S8	25	"digital certificate" and @py<"1998"	USPAT	OR	OFF	2004/09/07 00:30
S9	1	"digital certificate" and @py<"1998" and "kerberos"	USPAT	OR	OFF	2004/09/07 00:30
S10	11	"digital certificate" and @py<"1998" and "server"	USPAT	OR	OFF	2004/09/07 00:31
S11	1	"digital certificate" and @py<"1998" and "SSL"	USPAT	OR	OFF	2004/09/07 00:37
S12	0	"digital certificate" same "access list" and @py<"1998"	USPAT	OR	OFF	2004/09/07 00:38
S13	25	"digital certificate" and @py<"1998"	USPAT	OR	OFF	2004/09/07 00:45
S14	387	"SSL" and @py<"1998"	USPAT	OR	OFF	2004/09/07 00:45
S15	3	"SSL" and certificate$2 and @py<"1998"	USPAT	OR	OFF	2004/09/07 00:45
S16	3	"SSL" and certificate$2 and @py<"1998"	USPAT	OR	ON	2004/09/07 00:55
S17	4080	certificate$2 and @py<"1998"	USPAT	OR	ON	2004/09/07 00:55
S18	79	digital with certificate$2 and @py<"1998"	USPAT	OR	ON	2004/09/07 00:56
S19	28	digital with certificate$2 and @py<"1998" and certificate.ab.	USPAT	OR	ON	2004/09/07 00:56
S20	183	(credential$2) and @py<"1998"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/05 12:32
S21	4	(credential$2) and (secure adj connection$2) and @py<"1998"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/05 12:35
S22	8	(credential$2) and (secure adj connection$2) and @py<"1999"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/05 12:40
S23	96	(credential$2 certificat$2 token$3) and (secure adj connection$2) and @py<"1999"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/05 12:41

S24	120	(credential$2 certificat$2 token$3) and (secure adj connection$2) and @py<"2000"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/05 12:41
S25	3	(credential$2 certificat$2 token$3) and (secure adj connection$2) and @py<"2000" and authenticat$3.ti.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/06 15:51
S26	14	(credential$2 certificat$2 token$3) and (secure adj connection$2) and @py<"2000" and authenticat$3.ab.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/05 12:47
S27	120	(credential$2 certificat$2 token$3) and (secure adj connection$2) and @py<"2000"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/05 16:09
S28	1	"5590199".pn.	USPAT	OR	OFF	2005/08/07 18:54
S29	1	"5590199".pn.	USPAT	OR	OFF	2006/06/30 15:45
S30	2	"5590199".pn. "5005200".pn.	USPAT	OR	OFF	2006/09/17 23:14
S31	753	713/153.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 15:46
S32	93	713/153.ccls. and @py<"2001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 15:47
S33	106	713/156.ccls. and @py<"2001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 15:49
S34	70	380/279.ccls. and @py<"2001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/06 15:49
S35	248	(gateway proxy) with (secure adj connection)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/06 15:52
S36	87	(gateway proxy) with (secure adj connection) and (kerberos principal credential)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 15:58

S37	870	(gateway proxy) with (SSL (secure adj sockets adj layer))	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 15:59
S38	181	(gateway proxy) with (SSL (secure adj sockets adj layer)) and (principal kerberos)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:01
S39	0	SHAMBROOM near DAVID.in.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:01
S40	24	SHAMBROOM.in.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:02
S41	3	SHAMBROOM.in. and (gateway proxy principal SSL).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:02
S42	47	verizon.as. and (gateway proxy SSL certificate).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:03
S43	1	verizon.as. and (gateway proxy). clm. and (credential$2 principal$2). clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:04
S44	0	GTE with lab$9.as. and (gateway proxy).clm. and (credential$2 principal$2).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:04
S45	0	GTE.as. and (gateway proxy).clm. and (credential$2 principal$2).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:04
S46	4	713/153.ccls. and (gateway proxy). clm. and (credential$2 principal$2). clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:08
S47	10	713/156.ccls. and (gateway proxy). clm. and (credential$2 principal$2). clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:05
S48	0	380/279.ccls. and (gateway proxy). clm. and (credential$2 principal$2). clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:05
S49	1794	713/168.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:06

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S50	25	713/168.ccls. and (gateway proxy) with ((secure adj connection) (SSL) (Secure adj sockets adj layer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:08
S51	32	713/168.ccls. and (gateway proxy) and ((secure adj connection) (SSL) (Secure adj sockets adj layer)) and (principal kerberos)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:08
S52	10	713/168.ccls. and (gateway proxy). clm. and (credential$2 principal$2). clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 16:08

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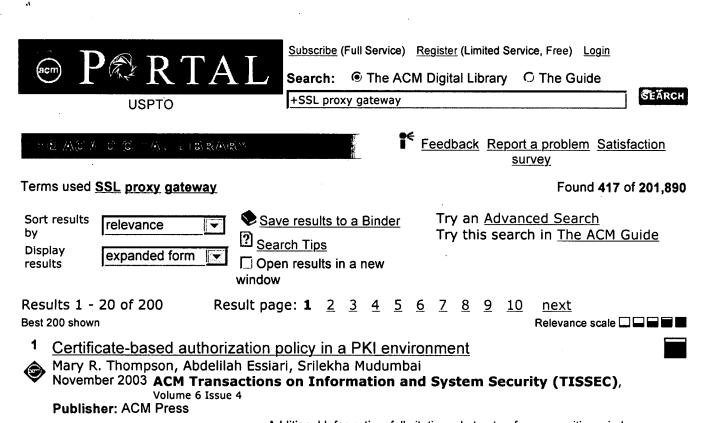- Delete a search
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#4   (((gateway or proxy) and (ssl) and (principal) and credential)
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1   Certificate-based authorization policy in a PKI environment   ■
Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai
November 2003 **ACM Transactions on Information and System Security (TISSEC),**
Volume 6 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(233.63 KB)   Additional Information: full citation, abstract, references, citings, index terms

The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

Keywords: Public key infrastructure, XML, digital certificates

2   On secure and pseudonymous client-relationships with multiple servers   ■
Eran Gabber, Phillip B. Gibbons, David M. Kristol, Yossi Matias, Alain Mayer
November 1999 **ACM Transactions on Information and System Security (TISSEC),**
Volume 2 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(161.56 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

This paper introduces a cryptographic engine, Janus, which assists clients in establishing and maintaining secure and pseudonymous relationships with multiple servers. The setting is such that clients reside on a particular subnet (e.g., corporate intranet, ISP) and the servers reside anywhere on the Internet. The Janus engine allows each client-server relationship to use either weak or strong authentication on each interaction. At the same time, each interaction preserves privacy by neithe ...

Keywords: Janus function, anonymity, mailbox, persistent relationship, privacy, pseudonym

3   A ubiquitous stable storage for mobile computing devices   ■
Legand L. Burge, Suleiman Baajun, Moses Garuba

March 2001 **Proceedings of the 2001 ACM symposium on Applied computing SAC '01**
Publisher: ACM Press
Full text available: pdf(80.15 KB)   Additional Information: full citation, references, index terms

Keywords: Jini, mobile computing, post-pc, security, wireless

4 Security in mobile communications: challenges and opportunities
Audun Jøsang, Gunnar Sanderud
January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**
Publisher: Australian Computer Society, Inc.

Full text available: pdf(117.04 KB)   Additional Information: full citation, abstract, references, citings, index terms

The nature of mobile communication, characterised for example by terminals having poor user interface and limited processing capacity, as well as complex combination of network protocols, makes the design of security solutions particularly challenging. This paper discusses some of the difficulties system architects are faced with as well as some advantages mobile networks offer when designing security solutions for mobile communication.

Keywords: heterogeneous networks, mobile devices, security, usability

5 The state of the art in locally distributed Web-server systems
Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2
Publisher: ACM Press
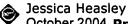
Full text available: pdf(1.41 MB)   Additional Information: full citation, abstract, references, citings, index terms

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

6 Student papers: Securing XML data
Jessica Heasley
October 2004 **Proceedings of the 1st annual conference on Information security curriculum development InfoSecCD '04**
Publisher: ACM Press
Full text available: pdf(50.73 KB)   Additional Information: full citation, abstract, references, index terms

XML is becoming one of the most important and widely used data formats. XML data in transit over the Internet as well as the data residing on servers must be assessed for XML associated security vulnerabilities and be properly secured from malicious XML specific attacks. There are several options in implementing XML security devices such as firewalls. Users need to understand how XML relates and interacts with Internet applications.

Keywords: XML, firewall

7 A component and communication model for push systems

Manfred Hauswirth, Mehdi Jazayeri

October 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 7th European software engineering conference held jointly with the 7th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-7**, Volume 24 Issue 6

Publisher: Springer-Verlag, ACM Press

Full text available: pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present a communication and component model for push systems. Surprisingly, despite the widespread use of many push services on the Internet, no such models exist. Our communication model contrasts push systems with client-server and event-based systems. Our component model provides a basis for comparison and evaluation of different push systems and their design alternatives. We compare several prominent push systems using our component model. The component model consists of producers an ...

8 A security architecture for computational grids

Ian Foster, Carl Kesselman, Gene Tsudik, Steven Tuecke

November 1998 **Proceedings of the 5th ACM conference on Computer and communications security CCS '98**

Publisher: ACM Press

Full text available: pdf(1.23 MB)   Additional Information: full citation, references, citings, index terms

9 The gateway system: uniform Web based access to remote resources

Geoffrey Fox, Tomasz Haupt, Erol Akarsu, Alexey Kalinichenko, Kang-Seok Kim, Praveen Sheethalnath, Choon-Han Youn

June 1999 **Proceedings of the ACM 1999 conference on Java Grande JAVA '99**

Publisher: ACM Press

Full text available: pdf(759.70 KB)   Additional Information: full citation, references, citings, index terms

10 Accounting and management: WilmaGate: a new open access gateway for hotspot management

Mauro Brunato, Danilo Severina

September 2005 **Proceedings of the 3rd ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '05**

Publisher: ACM Press

Full text available: pdf(206.13 KB)   Additional Information: full citation, abstract, references, citings, index terms

Wireless access has already become a ubiquitous way to connect to the Internet, but the mushrooming of wireless access infrastructures throughout the world has given rise to a wide range of user authentication, authorization and accounting (AAA) mechanisms, with lots of incompatible "standards", each having its unique features and responding to specific problems.The WilmaGate system has been developed in order to provide a viable alternative to such a scenario. The assumptions that led to this s ...

Keywords: access gateways, authentication, authorization, open access networks, wireless networks

11 Wireless trading in B2B markets: concepts, architecture, and experiences

Jakka Sairamesh, Ioana Stanoi, Chung-Sheng Li, Brad Topol

July 2001 **Proceedings of the 1st international workshop on Mobile commerce WMC '01**

Publisher: ACM Press

Full text available: ◪ pdf(534.56 KB)   Additional Information: full citation, abstract, references, index terms

With the tremendous advances in hand-held computing and communication capabilities, and the rapid proliferation of mobile devices, we are seeing a growth in mobile commerce in various consumer and business markets. In this paper, we present a novel architecture for end-to-end mobile commerce applications. We designed, implemented and deployed a system for mobile commerce connected to eMarketplaces. The system is currently undergoing trials under various configurations and in various countries ...

Keywords: WAP, architecture, auctions, electronic commerce, mobile commerce, performance, state-machines and experimentation, trading, transcoding proxy

12 The Satchel system architecture: mobile access to documents and services

Mike Flynn, David Pendlebury, Chris Jones, Marge Eldridge, Mik Lamming

December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: ◪ pdf(207.51 KB)   Additional Information: full citation, abstract, references, citings, index terms

Mobile professionals require access to documents and document‐related services, such as printing, wherever they may be. They may also wish to give documents to colleagues electronically, as easily as with paper, face‐to‐face, and with similar security characteristics. The Satchel system provides such capabilities in the form of a mobile browser, implemented on a device that professional people would be likely to carry anyway, such as a pager or mobile phone. Printing may be per ...

13 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

June 2000 **Proceedings of the 22nd international conference on Software engineering ICSE '00**

Publisher: ACM Press

Full text available: ◪ pdf(217.34 KB)   Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia system. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this paper, we introduce the Representational State Tra ...

Keywords: WWW, software architectural style, software architecture

14 Computer security: Proxy-based security protocols in networked mobile devices

M. Burnside, D. Clarke, T. Mills, A. Maywah, S. Devadas, R. Rivest

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**

Publisher: ACM Press

Full text available: 📄 pdf(765.09 KB)   Additional Information: full citation, abstract, references, citings, index terms

We describe a resource discovery and communication system designed for security and privacy. All objects in the system, e.g., appliances, wearable gadgets, software agents, and users have associated trusted software proxies that either run on the appliance hardware or on a trusted computer. We describe how security and privacy are enforced using two separate protocols: a protocol for secure device-to-proxy communication, and a protocol for secure proxy-to-proxy communication. Using two separate ...

Keywords: authorization, certificate, certificate chain, certificate chain discovery, mobile device, pervasive, protocol, proxy, security, ubiquitous, wireless

15 SNMP through WWW
Ching-Wun 'Bo' Tsai, Ruay-Shiung 'Bo' Chang
March 1998 **International Journal of Network Management**, Volume 8 Issue 2
Publisher: John Wiley & Sons, Inc.

Full text available: 📄 pdf(376.25 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this article we propose a bilingual agent to accept either SNMP or HTTP commands and design several HTML pages to facilitate the task of network management. For network elements that support only SNMP, the bilingual agent can act as a proxy, so that the traditional SNMP agent can also be queried through the Web browser. © 1998 John Wiley & Sons, Ltd.

16 Internet security: firewalls and beyond
Rolf Oppliger
May 1997 **Communications of the ACM**, Volume 40 Issue 5
Publisher: ACM Press

Full text available: 📄 pdf(339.15 KB)   Additional Information: full citation, references, citings, index terms, review

17 New topics: Low-cost communication for rural internet kiosks using mechanical backhaul
A. Seth, D. Kroeker, M. Zaharia, S. Guo, S. Keshav
September 2006 **Proceedings of the 12th annual international conference on Mobile computing and networking MobiCom '06**
Publisher: ACM Press

Full text available: 📄 pdf(733.95 KB)   Additional Information: full citation, abstract, references, index terms

Rural kiosks in developing countries provide a variety of services such as birth, marriage, and death certificates, electricity bill collection, land records, email services, and consulting on medical and agricultural problems. Fundamental to a kiosk's operation is its connection to the Internet. Network connectivity today is primarily provided by dialup telephone, although Very Small Aperture Terminals (VSAT) or long-distance wireless links are also being deployed. These solutions tend to be bo ...

Keywords: delay tolerant networks, low cost, mechanical back-haul, rural communication, system design

18 A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: pdf(340.33 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

> The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

> **Keywords**: internet, middleware, post-PC, security, transcoding

19 <u>Papers from Hotnets-II: The dark side of the Web: an open proxy's view</u>
Vivek S. Pai, Limin Wang, KyoungSoo Park, Ruoming Pang, Larry Peterson
January 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 1
Publisher: ACM Press
Full text available: pdf(102.49 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

> With the advent of large-scale, wide-area networking testbeds, researchers can deploy long-running services that interact with other resources on the Web. While such interaction can easily attract clients and traffic, our experience suggests that projects accepting outside input and interacting with outside resources must carefully consider the avenues for abuse of such services. The CoDeeN Content Distribution Network, deployed on PlanetLab, uses a network of caching Web proxy servers to intell ...

20 <u>iMobile EE: an enterprise mobile service platform</u>
Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei
July 2003 **Wireless Networks**, Volume 9 Issue 4
Publisher: Kluwer Academic Publishers

Full text available: pdf(2.90 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> iMobile[1] is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

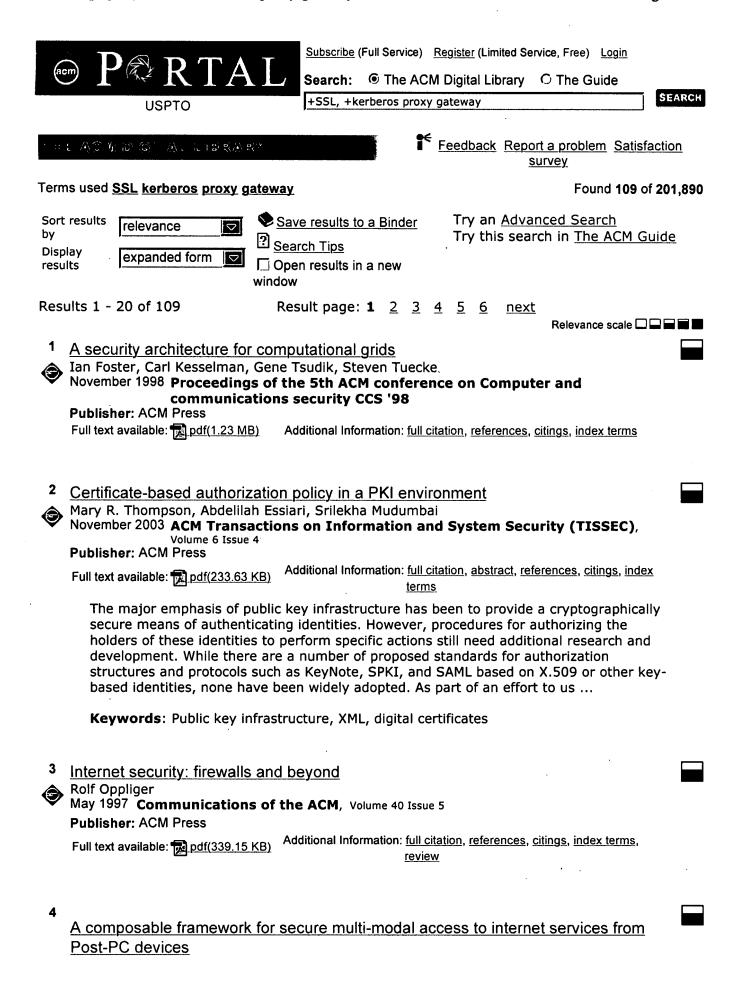> **Keywords**: content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

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1 A security architecture for computational grids   ▤

◈ Ian Foster, Carl Kesselman, Gene Tsudik, Steven Tuecke.
November 1998 **Proceedings of the 5th ACM conference on Computer and communications security CCS '98**
Publisher: ACM Press
Full text available: 📄 pdf(1.23 MB)   Additional Information: full citation, references, citings, index terms

2 Certificate-based authorization policy in a PKI environment   ▤

◈ Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai
November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(233.63 KB)   Additional Information: full citation, abstract, references, citings, index terms

The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

Keywords: Public key infrastructure, XML, digital certificates

3 Internet security: firewalls and beyond   ▤

◈ Rolf Oppliger
May 1997 **Communications of the ACM**, Volume 40 Issue 5
Publisher: ACM Press

Full text available: 📄 pdf(339.15 KB)   Additional Information: full citation, references, citings, index terms, review

4   ▤

A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer
October 2002 **Mobile Networks and Applications,** Volume 7 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: ▤ pdf(340.33 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

5 <u>Technical papers: Grid networks and portals---Evaluating grid portal security</u>   ▬
David Del Vecchio, Victor Hazlewood, Marty Humphrey
November 2006 **Proceedings of the 2006 ACM/IEEE conference on Supercomputing SC '06**
Publisher: ACM Press

Full text available: ▤ pdf(156.69 KB)
                 ▤ html(2.21 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Grid portals are an increasingly popular mechanism for creating customizable, Web-based interfaces to Grid services and resources. Due to the powerful, general-purpose nature of Grid technology, the security of any portal or entry point to such resources cannot be taken lightly. This is particularly true if the portal is running inside of a trusted perimeter, such as a Science Gateway running on an SDSC machine for access to the TeraGrid. To evaluate the current state of Grid portal security, we ...

6 <u>Role-based access control on the web</u>   ▬
Joon S. Park, Ravi Sandhu, Gail-Joon Ahn
February 2001 **ACM Transactions on Information and System Security (TISSEC),** Volume 4 Issue 1
Publisher: ACM Press

Full text available: ▤ pdf(331.03 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

Keywords: WWW security, cookies, digital certificates, role-based access control

7 <u>Session 2: secure Web services: Designing a distributed access control processor for</u> ▬
<u>network services on the Web</u>
Reiner Kraft
November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**
Publisher: ACM Press

Full text available: ▤ pdf(301.14 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

8 Security Issues in the ABELS System for Linking Distributed Simulations
G. Ayorkor Mills-Tettey, Linda F. Wilson
March 2003 **Proceedings of the 36th annual symposium on Simulation ANSS '03**
Publisher: IEEE Computer Society
Full text available: pdf(478.65 KB)   Additional Information: full citation, abstract, index terms

The Agent-Based Environment for Linking Simulations(ABELS) framework is designed to allow physically distributedsimulations and other data resources to form a"data cloud" for the exchange of information. In particular,it uses a distributed brokering system to facilitate dynamiclinkings between independently-designed, autonomous participants,without requiring the use of stringent standardsto which participants must conform. This paper discussesvarious challenges in developing a security framework ...

9 Technical Session: Supporting ubiquitous computing through directory enabled technologies
Michael Richichi, Paul Coen
October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User services SIGUCCS '01**
Publisher: ACM Press
Full text available: pdf(285.27 KB)   Additional Information: full citation, abstract, references, citings, index terms

Drew has been providing computers to students since 1984. Many universities have ubiquitous computing programs where students receive a laptop computer as part of their educational package. These programs reduce the dependence on and management issues of traditional computer labs, and allow 24x7 computing access to every student at the University. Drew also provides Novell Directory Services (NDS) accounts to all of these students, and utilizes Novell ZENworks to customize software, personalize ...

Keywords: LDAP, ZENworks, directory services, eDirectory, laptop programs, management, ubiquitous computing

10 Managing computing resources in active intranets
Ramnath K. Chellappa, Alok Gupta
March 2002 **International Journal of Network Management**, Volume 12 Issue 2
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(145.45 KB)   Additional Information: full citation, abstract, references, index terms

The objective of this paper is to present an economic pricing-based resource management technique for Intranets that has the capability of managing Intranet resources from an organizational perspective. We discuss the adoption of this pricing scheme at three stages: application level, node level, and data-stream level implementations. These three levels demonstrate how a pricing based approach can be used with the current technology and also be migrated to evolving network architectures such as ...

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◈ <u>Service-oriented device communications using the *devices profile for web services*</u> ▬
François Jammes, Antoine Mensch, Harm Smit
November 2005 **Proceedings of the 3rd international workshop on Middleware for pervasive and ad-hoc computing MPAC '05**
Publisher: ACM Press
Full text available: ⬚ <u>pdf(479.82 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> This paper outlines the benefits of adopting service-oriented architectures at the level of communications between resource-constrained embedded devices. It focuses on the usage of the *Devices Profile for Web Services* as the underpinning of such architectures for "smart" devices and discusses an early implementation thereof. It further illustrates how "dumb" or "legacy" devices can be integrated using a gatewaying approach.
>
> **Keywords:** communication infrastructure, device networking, service-oriented architecture, web service

12 <u>The Emperor's old armor</u> ▬
◈ Bob Blakley
September 1996 **Proceedings of the 1996 workshop on New security paradigms NSPW '96**
Publisher: ACM Press
Full text available: ⬚ <u>pdf(1.41 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

13 <u>Mobile services and technology track: A conceptual approach to information security</u> ▬
◈ <u>in financial account aggregation</u>
Manish Agrawal, Hemant Padmanabhan, Lokesh Pandey, H. R. Rao, Shambhu Upadhyaya
March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**
Publisher: ACM Press
Full text available: ⬚ <u>pdf(173.70 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

> An important dimension of mobile computing is the ubiquitous and location-independent availability of data. Aggregation is the ability to electronically access and display personal account information from disparate sources through a single identity. The client financial data is assembled in an organized format providing meaningful summarization and analysis. The prevalent methods of aggregation pose issues in information security and assurance. Utilizing advances in Internet technology such as ...
>
> **Keywords:** account service providers, aggregation, identity service providers, scraping

14 <u>Adapting globus and kerberos for a secure ASCI grid</u> ▬
◈ Patrick C. Moore, Wilbur R. Johnson, Richard J. Detry
November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '01**
Publisher: ACM Press
Full text available: ⬚ <u>pdf(143.26 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Porting a complex secure application from one security infrastructure to another is often difficult or impractical. Grid security associated with the Globus toolkit is supported by a Grid Security Infrastructure (GSI) based on a Public Key Infrastructure where users authenticate to the grid using X509 certificates. Kerberos security is based on a trusted third party, secret key infrastructure where users authenticate using encrypted tickets. However, both GSI and Kerberos provide a Generic Secur ...

Keywords: ASCI, GSSAPI, globus, grid, kerberos, security

15 Power optimization for real-time and media-rich embedded systems: Proxy-based task partitioning of watermarking algorithms for reducing energy consumption in mobile devices
Arun Kejariwal, Sumit Gupta, Alexandru Nicolau, Nikil Dutt, Rajesh Gupta
June 2004 **Proceedings of the 41st annual conference on Design automation DAC '04**
Publisher: ACM Press
Full text available: pdf(494.20 KB)   Additional Information: full citation, abstract, references, index terms

Digital watermarking is a process that embeds an imperceptible signature or watermark in a digital file containing audio, image, text or video data. The watermark is later used to authenticate the data file and for tamper detection. It is particularly valuable in the use and exchange of digital media such as audio and video on emerging handheld devices. However, watermarking is computationally expensive and adds to the drain of the available energy in handheld devices. We present an approach in ...

Keywords: handhelds, partitioning, proxy, watermarking

16 Implementing role based access control for federated information systems on the web
Kerry Taylor, James Murty
January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(217.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

There is rapidly increasing interest in Australia in on-line sharing of information stored in corporate databases, especially within and between staff of independent government agencies. Biological collections databases and population health GIS are good examples of the frequent situation where database custodians are looking for dynamic, distributed, heterogenous federated information system models for information sharing within loosely constituted communities. This paper describes a security m ...

Keywords: RBAC, federated databases

17 Atomicity in electronic commerce
J. D. Tygar
May 1996 **Proceedings of the fifteenth annual ACM symposium on Principles of distributed computing PODC '96**
Publisher: ACM Press
Full text available: pdf(1.74 MB)   Additional Information: full citation, references, citings, index terms

18 Article abstracts with full text online: Globus security model for grid environment
Nitin V. Kanaskar, Umit Topaloglu, Coskun Bayrak
November 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 6
Publisher: ACM Press
Full text available: pdf(372.40 KB)   Additional Information: full citation, abstract, references, index terms

Grid technology is increasingly being looked upon as a natural extension of the internet for engaging in complex data processing tasks over resources which are distributed across the world. Architects and developers employing grid systems must take into consideration security implications. Dynamic generation of virtual organizations leads to a synergistic picture which has to address security requirements never encountered before. Globus toolkit has devised a framework for making secure use of g ...

19 Cryptographic protocols: The verification of an industrial payment protocol: the SET purchase phase
Giampaolo Bella, Lawrence C. Paulson, Fabio Massacci
November 2002 **Proceedings of the 9th ACM conference on Computer and communications security CCS '02**
Publisher: ACM Press

Full text available: pdf(209.87 KB)   Additional Information: full citation, abstract, references, citings, index terms

The Secure Electronic Transaction (SET) protocol has been proposed by a consortium of credit card companies and software corporations to secure e-commerce transactions. When the customer makes a purchase, the SET dual signature guarantees authenticity while keeping the customer's account details secret from the merchant and his choice of goods secret from the bank.This paper reports the first verification results for the complete purchase phase of SET. Using Isabelle and the inductive method, we ...

Keywords: electronic commerce, formal verification, inductive specifications, isabelle proof assistant, security protocols

20 Separating key management from file system security
David Mazières, Michael Kaminsky, M. Frans Kaashoek, Emmett Witchel
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5
Publisher: ACM Press

Full text available: pdf(1.77 MB)   Additional Information: full citation, abstract, references, citings, index terms

No secure network file system has ever grown to span the Internet. Existing systems all lack adequate key management for security at a global scale. Given the diversity of the Internet, any particular mechanism a file system employs to manage keys will fail to support many types of use.We propose separating key management from file system security, letting the world share a single global file system no matter how individuals manage keys. We present SFS, a secure file system that avoids internal ...

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